

### **REMARKS**

Claims 1 through 4 were presented for examination. Claims 1 and 3 were rejected. Claims 2 and 4 were objected to.

Claims 1 and 3 have been amended to clarify the distinction between the present invention and the prior art. Claim 1 has been also amended to correct inadvertent typographical errors.

Claims 2 and 4 been canceled, and the limitations in those claims have been incorporated into claims 1 and 3, respectively, to bring the claims into an allowable state.

The applicant respectfully requests reconsideration in light of the amendments and the following comments.

#### **35 U.S.C. 102 Rejection of Claims 1 and 3**

Claims 1 and 3 were rejected under 35 U.S.C. 102(e) as being anticipated by W. T. Zaumen et al., U.S. Patent 6,118.760, issued September 12, 2000 (hereinafter "Zaumen"). The applicant respectfully submits that the claims, as amended, overcome the rejection.

Claim 1, as amended, recites:

**1.** A router comprising:  
an input port for receiving a succession of packets, wherein each of said packets comprises a destination address;  
a plurality of output ports;  
a switching fabric for interconnecting said input port to each of said plurality of output ports; and  
a processor for building a temporal model of the occurrence of said destination addresses at said input port, for populating said routing table cache based on said temporal model and at least one entry that is stored in a routing table, and for routing at least one of said packets from said input port to one of said output ports through said switching fabric based on said entry that is stored in said routing table cache;  
*wherein said temporal model is based on the autoregressive moving average of the occurrence of said destination addresses.*  
*[emphasis supplied]*

Nowhere does Zaumen teach or suggest, alone or in combination with the other references, what claim 1 recites – namely that the temporal model is based on the autoregressive moving average of the occurrence of the destination addresses. For this reason, the applicant respectfully submits that the rejection of claim 1 is overcome.

Claim 3, as amended, recites:

**3.** A method comprising:

receiving a temporal succession of packets at an input port, wherein each of said packets comprises a destination address;

generating a temporal model based on the occurrence of said destination addresses;

populating a routing table cache based on said temporal model and at least one entry that is stored in a routing table; and

forwarding at least one of said packets from said input port to one of a plurality of output ports based on said entry that is stored in said routing table cache;

*wherein said temporal model is based on the autoregressive moving average of the occurrence of said destination addresses.*

*[emphasis supplied]*

Nowhere does Zaumen teach or suggest, alone or in combination with the other references, what claim 3 recites – namely that the temporal model is based on the autoregressive moving average of the occurrence of the destination addresses. For this reason, the applicant respectfully submits that the rejection of claim 3 is overcome.

**Allowable Subject Matter**

Claims 2 through 4 were objected to as being dependent upon rejected base claims. The limitations in claims 2 and 4 have been incorporated into claims 1 and 3, respectively, placing claims 1 and 3 in an allowable state.

**Request for Reconsideration Pursuant to 37 C.F.R. 1.111**

Having responded to each and every ground for objection and rejection in the Office action mailed December 18, 2003, the applicant requests reconsideration of the instant application pursuant to 37 CFR 1.111 and requests that the Examiner allow all of the pending claims and pass the application to issue.

Should there remain unresolved issues the applicant respectfully requests that Examiner telephone the applicant's attorney at 732-578-0103 x11 so that those issues can be resolved as quickly as possible.

Respectfully,  
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